

Roy F. Weston, Inc.
Building 3701
Barnum Road
Fort Devens, Massachusetts 01433
508-772-7190 • Fax 508-772-7251

Mailing Address: Roy F. Weston, Inc. P.O. Box 425 Ayer, Massachusetts 01432-0425

Superfund Records Center

SITE: New Beating

BREAK: \_

OTHER:

10 September 1997 Work Order No. 03886-118-002-2700-00

Mr. Maurice Beaudoin, Resident Engineer Department of the Army New England District, Corps of Engineers New Bedford Resident Office 103 Sawyer Street New Bedford, MA 02746

Reference:

Contract No. DACW33-95-D-0004

Delivery Order No. 0002

New Bedford Harbor Superfund Site

Sawyer Street Site O & M DCN: NBH-090997-AAJZ

Subject:

Quarterly Groundwater Sampling Results - Second Quarter 1997

Dear Mr. Beaudoin:

This is a Letter Report summarizing quarterly groundwater sampling activities and results at the New Bedford Harbor Sawyer Street Site. Seven on-site groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4A, MW-5, MW-6, and MW-7A) were sampled on 26 and 27 June 1997. The attached Site Plan shows the locations of on-site monitoring wells. Table 1 summarizes the groundwater samples collected. Table 2 summarizes the final field parameters measured at each location after well purging, but prior to sample collection. Table 3 summarizes the analytical results of the sampling.

As shown on Table 3, the dissolved concentrations of lead in MW-2 and MW-3 equal and exceed the applicable U.S. EPA Maximum Contaminant Level (MCL) regulatory guidelines of 15.0 parts per billion (ppb), respectively. However, based on the matrix spike/matrix spike duplicate (MS/MSD) for filtered samples not meeting quality control criteria for lead, in addition to past analytical results for these sample locations being historically lower, these results should be estimated and biased as high. No other exceedances of MCLs were noted. Data validation notes and the laboratory data transmittals for the 26 and 27 June 1997 groundwater sampling results are attached.

During the groundwater sampling event on 26 and 27 June 1997, the depression area located east of the Confined Disposal Facility (CDF) contained various areas of standing water and saturated soil to a maximum depth of approximately 0.5 feet. Monitoring wells MW-2 and MW-3 are located in this area. No standing water was observed in the vicinity of these two wells, however,



Mr. Maurice Beaudoin U.S. Army Corps of Engineers

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10 September 1997

the soil surrounding these wells was saturated. The presence of saturated soils and standing water in the vicinity of these wells may affect the natural measured depth to water in the wells and may also affect the quality of groundwater in this area. The depression area is utilized as a discharge area for rain water which accumulates on the covers of CDF cells.

Please call me at (508) 772-7190 if you have any questions regarding this Letter Report.

Very Truly Yours,

ROY F. WESTON, INC.

David C. Crispo

Associate Project Engineer

il C. Cin

cc: R. Rico (WESTON)

L. Lemay [WESTON DCN File (2)]

M. Otis (CENAE)
Project File (DVN)

### Inter-Office Memorandum



TO:

Dave Crispo

FROM:

Dianc Quigley

DATE:

9 September 1997

PROJECT:

New Bedford

W.O. NO.:

03886-118-002-2700-00

SUBJECT:

Data Review of Filtered and Unfiltered Samples 002-0697 through 007-0697, 101-

0697, and 202-0697

**ACTION:** 

Metals and PCB data submitted by Lancaster Laboratories for the above listed

samples collected 6/26/97 and 6/27/97 was reviewed.

Chains of custodies were reviewed to verify methodology, condition of samples, and to ensure holding times were met. The following discrepancies were noted in the unfiltered analyses;

- Sample <u>007-0697</u>, the positive lead result (0.0078J) should be estimated due to MS/MSD results not meeting QC criteria. One of the two PCB surrogates did not meet QC criteria; no action is necessary.
- Samples <u>001-0697</u>, <u>101-0697</u>, and <u>003-0697</u>; the positive lead results should be estimated due to MS/MSD results not meeting QC criteria. One of the two PCB surrogates did not meet QC criteria in samples 001-0697 and 101-0697; no action is necessary. Field duplicate criteria was met.

No target compounds were detected in the field blank. All other data is uscable as reported by the laboratory.

The following discrepancies were noted in the filtered analyses:

- 1. Samples <u>001-0697</u>, <u>003-0697</u>, and <u>007-0697</u> the positive lead results should be estimated due to MS/MSD results not meeting QC criteria.
- 2. Field duplicate criteria was not met in the lead analyses of samples <u>001-0697</u> and <u>101-0697</u>. Both lead results should be estimated.
- 3. <u>Lead</u> was detected in the filtered water samples <u>004-0697</u>, <u>005-0697</u>, and <u>002-0697</u> at a higher level than in the unlittered samples.

No target compounds were detected in the field blank. All other data is useable as reported by the laboratory.

If you have any questions, please call me at extension 5534.

DQ:kkd

### **Explanation of Symbols and Abbreviations**

The following defines common symbols and abbreviations used in reporting technical data:

N.D. TNTC IU umhos/cm C Cal meq g ug mI m3	none detected Too Numerous To Count International Units micromhos/cm degrees Celsius (diet) calories milliequivalents gram(s) microgram(s) milliliter(s) cubic meter(s)	BMQL MPN CP Units NTU F Ib. kg mg I ul fib > 5 um/ml	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units degrees Fahrenheit pound(s) kilogram(s) milligram(s) liter(s) microliter(s) fibers greater than 5 microns in length per re-	ml
--	---	--	--	----

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight basis

  Results printed under this heading have been adjusted for moisture content. This increases the analyte concentration to approximate the value present in a similar sample without moisture.

#### U.S. EPA data qualifiers:

#### **Organic Qualifiers** Inorganic Qualifiers TIC is a possible aldol-condensation product В Value is <CRDL, but ≥IDL В Analyte was also detected in the blank Ε Estimated due to interference С Pesticide result confirmed by GC/MS Duplicate injection precision not met Μ D Compound quantitated on a diluted sample N Spike sample not within control limits Ε Concentration exceeds the calibration range of Method of standard additions (MSA) used S the instrument for calculation Estimated value U Compound was not detected Ν Presumptive evidence of a compound (TIC's only) Post digestion spike out of control limits W Concentration difference between primary and Duplicate analysis not within control limits confirmation columns >25% Correlation coefficient for MSA < 0.995 Compound was not detected X,Y,ZDefined in case narrative

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITATION OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. We disclaim any other warranties, express or implied, including a Warranty of Fitness for Particular Purpose and Warranty of Merchantability. We accept no responsibility for the purpose for which the client uses the test results. No purchase order or other order for work shall be accepted by the company with any conditions that vary from our Standard Terms and Conditions. If Lancaster Laboratories performs work requested by the client, conditions at variance to our Standard Terms and Conditions are not part of the contract.



Page: 1 of

LLI Sample No. WW 2734965 Collected: 6/26/97 at 11:25 by DC

Submitted: 6/28/97 Reported: 7/28/97

Discard: 8/28/97

007-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

07697 SDG#: NBH20-01

CAT

NO. ANALYSIS NAME

1749 Cadmium

1751 Chromium 1753 Copper

1055 Lead (furnace method)

0173 PCBs in Water

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

0.0078

METHOD RESULTS DETECTION LIMIT UNITS

0.0031 mg/l 0.0126 J 0.0066 mg/l 0.0088 J 0.0045 mg/1

0.0011 mg/1

1.0 See Page

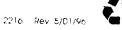
1 COPY TO Roy F. Weston, Inc. 1 COPY TO Data Package Group

ATTN: Mr. Thomas Abdella

Questions? Contact your Client Services Representative De Brooks at (717) 656-2300 12:06:50 D 0002 12 809 0.00 00010504 ASR000 123814 571380

> Respectfully Submitted Ramona V. Layman Manager, Metals/Leachates







Page: 2 of 5

LLI Sample No. WW 2734965 Collected: 6/26/97 at 11:25 by DC

Submitted: 6/28/97 Reported: 7/28/97

Discard: 8/28/97

007-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03 07697 SDG#: NBH20-01

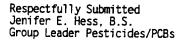
Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

AS DECETVED

P.O. LL-2139-A7 Rel. 03886-118-002

CAT		WO KECETAEN							
NO.	ANALYSIS NAME	RESULTS	METHOD DETECTION LIMIT UNITS						
PCBs	in Water								
0639 0640 0641 0642 0643 0644 0645	PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	N.D. N.D. N.D. N.D. N.D. N.D. N.D.	0.043 ug/l 0.12 ug/l 0.048 ug/l 0.10 ug/l 0.038 ug/l 0.14 ug/l 0.036 ug/l						

Questions? Contact your Client Services Representative De Brooks at (717) 656-2300







### LABORATORY CHRONICLE

Page: 3 of 5



LLI Sample No. WW 2734965 Collected: 06/26/97 at 11:25 by DC

Submitted: 06/28/97

007-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

07697 SDG#: NBH20-01

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749	Cadmium	SW-846 6010A	1	07/11/97 0047	Tara L. Linville
1751	Chromium	SW-846 6010A	1	07/11/97 0047	Tara L. Linville
1753	Copper	SW-846 6010A	1	07/11/97 0047	Tara L. Linville
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	07/02/97 2237	Charlotte L. Houck
1055	Lead (furnace method)	SW-846 7421	1	07/15/97 1135	Laura M. Hickes
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1	07/02/97 2231	Charlotte L. Houck
0173	PCBs in Water	SW-846 8081	1	07/02/97 0732	Rick Shober
0817	Water Sample Pest. Extraction	SW-846 3510B	1	06/30/97 1945	David M. Yiannokos

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

See reverse side for explanation of symbols and abbreviations

QUALITY CONTROL REPORT





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LLI Sample No. 2734965 007-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS I	LIMITS HIGH
1749 Cadmium 0.0031 1751 Chromium 0.0066 1753 Copper 0.0045 1055 Lead (furna 0.0011	mg/l mg/l mg/l ace method) mg/l	Batch: 971831848007 N.D. Batch: 971831848007 N.D. Batch: 971831848007 N.D. Batch: 971835704003 N.D.	0 (1) 0 (1) 0 (1) 0 (1)	103 108 109 93	101 104 107 252	3 4 2 92	103 105 106 92			80 80 80	120 120 120 120
0173 PCBs in Wat	ter	Batch: 971810002A								00	120
0639 PCB-1016 0.043 0640 PCB-1221 0.12 0641 PCB-1232	ug/1 L ug/1	N.D. N.D.		100	96	5	91	87	4	48	125
	ug/1	N.D.									
	uq/1	N.D.									
0.038 0644 PCB-1254	ug/1	N.D.									
0645 PCB-1260		N.D.								٠	
0.036	ug/1	N.D.		99	95	3	101	96	5	67	128

(1) The result for one or both determinations was less than five times the LOQ.





### QUALITY CONTROL REPORT



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LLI Sample No. 2734965 007-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

SURROGATE S	ummary
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	TRIAL ID	SURROGATE	RECOVERY *	SURROGATE LOW	LIMITS HIGH
0173 PCBs in Water		TCX DCB	86 54	60 60	120 120







Page: 1 of 5

LLI Sample No. WW 2734966 Collected: 6/26/97 at 12:10 by DC

Submitted: 6/28/97 Reported: 7/29/97 Discard: 8/29/97

006-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03 06697 SDG#: NBH20-02

CAT NO. ANALYSIS NAME

1749 Cadmium 1751 Chromium 1753 Copper

1055 Lead (furnace method)

0173 PCBs in Water Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

METHOD RESULTS DETECTION LIMIT UNITS

0.0031 mg/1 N.D. 0.0066 mg/l 0.0045 mg/l N.D. N.D. 0.0022 J 0.0011 mg/l

1.0 See Page

1 COPY TO Roy F. Weston, Inc. 1 COPY TO Data Package Group

ATTN: Mr. Thomas Abdella

Questions? Contact your Client Services Representative at (717) 656-2300 REP 123814 571380 De Brooks 19:47:47 D 0002 12 0.00 00010504 ASR000

> Respectfully Submitted Ramona V. Layman Manager, Metals/Leachates



Lancaster Laboratories 2425 New Holland Pike PO Box 12425 Lancaster, PA 17605-2425 717-656-2300 Fax 717-656-2681





Page: 2 of 5

LLI Sample No. WW 2734966 Collected: 6/26/97 at 12:10 by DC

Submitted: 6/28/97 Reported: 7/29/97

Discard: 8/29/97

006-0697 Grab Water Sample

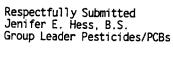
US ACOE-New Bedford 03886-118-002-0500-03 06697 SDG#: NBH20-02

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

CAT	_	_	AS	RECEIVED			
NO.	ANALYSIS	NAME	RESULTS	METHOD DETECTION LIMIT UNITS			
PCBs	in Water	•		•			
0639 0640 0641 0642 0643 0644 0645	PCB-1016 PCB-1221 PCB-1232 PCB-1248 PCB-1254 PCB-1260		N.D. N.D. N.D. N.D. N.D. N.D.	0.12 ug/1 0.048 ug/1 0.10 ug/1 0.038 ug/1 0.14 ug/1			

Questions? Contact your Client Services Representative De Brooks at (717) 656-2300







LABORATORY CHRONICLE

Page: 3 of 5

LLI Sample No. WW 2734966 Collected: 06/26/97 at 12:10 by DC

Submitted: 06/28/97

006-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03 06697 SDG#: NBH20-02

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1753	Cadmium	SW-846 6010A	1	07/11/97 0053	Tara L. Linville
	Chromium	SW-846 6010A	1	07/11/97 0053	Tara L. Linville
	Copper	SW-846 6010A	1	07/11/97 0053	Tara L. Linville
	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	07/02/97 2237	Charlotte L. Houck
1055	Lead (furnace method)	SW-846 7421	1	07/15/97 1156	Laura M. Hickes
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1	07/02/97 2231	Charlotte L. Houck
0173	PCBs in Water	SW-846 8081	1	07/02/97 0810	Rick Shober
0817	Water Sample Pest. Extraction	SW-846 3510B	1	06/30/97 1945	David M. Yiannokos

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433



### QUALITY CONTROL REPORT



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LLI Sample No. 2734966 006-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS I	LIMITS HIGH
1751 Chromium 0.0066 1753 Copper	mg/l mg/l mg/l ce method) mg/l	Batch: 971831848007 N.D. Batch: 971831848007 N.D. Batch: 971831848007 N.D. Batch: 971835704003 N.D.	0 (1) 0 (1) 0 (1) 0 (1)	103 108 109 93	101 104 107 252	3 4 2	103 105 106			80 80 80	120 120 120
0173 PCBs in Wate		Batch: 971810002A	0 (1)	93	252	92	92			80	120
0639 PCB-1016 0.043 0 0640 PCB-1221 0.12 0 0641 PCB-1232 0.048 0 0642 PCB-1242 0.10 0 0643 PCB-1242 0.038 0 0644 PCB-1254 0.14 0	ug/1 ug/1 ug/1 ug/1	N.D. N.D. N.D. N.D. N.D. N.D. N.D.		100	96	5	91	87	4	48	125
0645 PCB-1260	ig/]	N.D.		99	95	3	101	96	5	67	128

(1) The result for one or both determinations was less than five times the LOQ.





QUALITY CONTROL REPORT

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LLI Sample No. 2734966 006-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY *	SURROGATE LOW	LIMITS HIGH
0173 PCBs in Water		TCX DCB	87 80	60 60	120 120







Page: 1 of

LLI Sample No. WW 2734967 Collected: 6/26/97 at 13:00 by DC

Submitted: 6/28/97 Reported: 7/28/97

Discard:

8/28/97

001-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

01697 SDG#: NBH20-03

CAT

NO. ANALYSIS NAME

1749 Cadmium 1751 Chromium

1753 Copper 1055 Lead (furnace method)

PCBs in Water

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

METHOD **RESULTS** DETECTION LIMIT UNITS

N.D. 0.0031 N.D. 0.0066 mg/l N.D. 0.0045 mg/1 0.0077 0.0011 mg/l

1.0 See Page

Roy F. Weston, Inc. Data Package Group 1 COPY TO 1 COPY TO

ATTN: Mr. Thomas Abdella

Questions? Contact your Client Services Representative De Brooks at (717) 656-2300 123814 571380 12:07:59 D 0002 12 809 0.00 00010504 ASR000

> Respectfully Submitted Ramona V. Layman Manager, Metals/Leachates







Page: 2 of 5

LLI Sample No. ww 2734967 Collected: 6/26/97 at 13:00 by DC

Discard:

8/28/97

Submitted: 6/28/97 Reported: 7/28/97

001-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

01697 SDG#: NBH20-03

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

CAT NO. ANALYSIS NAME

RESULTS

METHOD DETECTION LIMIT UNITS

AS RECEIVED

PCBs in Water

0639 PCB-1016 0640 PCB-1221 0641 PCB-1232 0642 PCB-1242 0643 PCB-1248 0644 PCB-1254 0645 PCB-1260 N.D. 0.043 ug/1 N.D. 0.12 ug/1 N.D. 0.048 ug/1 N.D. 0.10 ug/1 N.D. 0.038 ug/1 N.D. 0.14 ug/1 N.D. 0.036 ug/1

Questions? Contact your Client Services Representative De Brooks at (717) 656-2300

> Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs





### LABORATORY CHRONICLE

Page: 3 of 5



LLI Sample No. ww 2734967 Collected: 06/26/97 at 13:00 by DC

Submitted: 06/28/97

001-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03 01697 SDG#: NBH20-03

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749	Cadmium	SW-846 6010A	1	07/11/97 0111	Tara L. Linville
1751	Chromium	SW-846 6010A	1	07/11/97 0111	Tara L. Linville
1753	Copper	SW-846 6010A	1	07/11/97 0111	Tara L. Linville
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	07/02/97 2237	Charlotte L. Houck
1055	Lead (furnace method)	SW-846 7421	1	07/15/97 1207	Laura M. Hickes
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A		07/02/97 2231	Charlotte L. Houck
0173	PCBs in Water	SW-846 8081	1	07/02/97 0849	Rick Shober
0817	Water Sample Pest. Extraction	SW-846 3510B		06/30/97 1945	David M. Yiannokos

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433





# Lancaster Laboratories A division of Thermo Analytical Inc.

QUALITY CONTROL REPORT

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LLI Sample No. 2734967 001-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS LOW	LIMITS HIGH
1749 Cadmium	ace method)	Batch: 971831848007 N.D. Batch: 971831848007 N.D. Batch: 971831848007 N.D. Batch: 971835704003	0 (1) 0 (1) 0 (1)	103 108 109	101 104 107	3 4 2	103 105 106			80 80 80	120 120 120
0173 PCBs in Wat		N.D.	0 (1)	93	252	92	92			80	120
0639 PCB-1016 0.043 0640 PCB-122: 0.12 0641 PCB-1232 0.048 0642 PCB-1242 0.10 0643 PCB-1248 0.038 0644 PCB-1254 0.14	6 ug/1 l ug/1 2 ug/1 2 2 2 1 3 ug/1 4 ug/1	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.		100	96	5	91	87	4	48	125
0.036	ug/1	N.D.		99	95	3	101	96	5	67	128

(1) The result for one or both determinations was less than five times the LOQ.



### QUALITY CONTROL REPORT



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LLI Sample No. 2734967 001-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

#### SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY *	SURROGATE LOW	LIMITS HIGH
0173 PCBs in Water		TCX DCB	83 45	60 60	120 120





P.O. LL-2139-A7

Rel. 03886-118-002



Page: 1 of 5

LLI Sample No. WW 2734968 Collected: 6/26/97 at 13:00 by DC

Discard: 8/28/97

Submitted: 6/28/97 Reported: 7/28/97

101-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03 10197 SDG#: NBH20-04

ANALYSIS NAME

AS RECEIVED

METHOD RESULTS **DETECTION LIMIT UNITS** 

Account No: 08947

Devons MA 01433

Roy F. Weston, Inc. Bldg. 3701 Barnum Road

N.D. 0.0031 mg/1 N.D. 0.0066 mg/l 0.0045 mg/1 N.D. 0.0082 0.0011 mg/l 1.0 See Page

Copper 1055

CAT

NO.

1749

1751

1753

Lead (furnace method)

PCBs in Water

Cadmium

Chromium

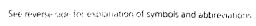
1 COPY TO Roy F. Weston, Inc. 1 COPY TO Data Package Group

ATTN: Mr. Thomas Abdella

Questions? Contact your Client Services Representative at (717) 656-2300 123814 571380 De Brooks 12:08:24 D 0002 12 0.00 00010504 ASR000 809

> Respectfully Submitted Ramona V. Layman Manager, Metals/Leachates







Lancaster Laboratories



Page: 2 of 5

LLI Sample No. WW 2734968 Collected: 6/26/97 at 13:00 by DC

Submitted: 6/28/97 Reported: 7/28/97

Discard: 8/28/97

101-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03 10197 SDG#: NBH20-04

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

ug/1

P.O. LL-2139-A7 Rel. 03886-118-002

CAT			AS	RECEIVED
NO.	ANALYSIS	NAME	RESULTS	METHOD DETECTION LIMIT UNITS
PCBs	in Water			
0639 0640 0641 0642 0643 0644 0645	PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260	·	N.D. N.D. N.D. N.D. N.D. N.D.	0.12 ug/1 0.049 ug/1 0.10 ug/1

Questions? Contact your Client Services Representative De Brooks at (717) 656-2300



Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs



Lancaster Laboratories

PO Box 12425



# Lancaster Laboratories A division of Thermo Analytical Inc.

LABORATORY CHRONICLE

Page: 3 of 5

LLI Sample No. WW 2734968 Collected: 06/26/97 at 13:00 by DC

Submitted: 06/28/97

101-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

10197 SDG#: NBH20-04

CAT ANALYSIS NO ANALYSIS NAME METHOD TRIAL DATE AND TIME **ANALYST** 1749 Cadmium SW-846 6010A 07/11/97 0117 1 Tara L. Linville 1751 Chromium SW-846 6010A 07/11/97 0117 07/11/97 0117 Tara L. Linville Tara L. Linville 1 1753 Copper SW-846 6010A 1 WW SW846 ICP Digest (tot rec) 1848 SW-846 3005A Charlotte L. Houck 07/02/97 2237 1055 Lead (furnace method) SW-846 7421 07/15/97 1218 07/02/97 2231 Laura M. Hickes 5704 WW/TL SW 846 GFAA Digest tot SW-846 3020A 1 Charlotte L. Houck 0173 PCBs in Water SW-846 8081 07/02/97 0927 Rick Shober 0817 Water Sample Pest. Extraction SW-846 3510B 06/30/97 1945 David M. Yiannokos

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433



### QUALITY CONTROL REPORT



Page: 4 of

LLI Sample No. 2734968 101-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

SAMPLE SAMPLE MDL UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS I	LIMITS HIGH
1749 Cadmium	Batch: 971831848007 N.D. Batch: 971831848007 N.D. Batch: 971831848007 N.D. Batch: 971835704003 N.D.	0 (1) 0 (1) 0 (1)	103 108 109	101 104 107	3 4 2	103 105 106			80 80 80	120 120 120
0173 PCBs in Water	•••••	0 (1)	93	252	92	92			80	120
0639 PCB-1016 0.044 ug/1 0640 PCB-1221 0.12 ug/1 0641 PCB-1232 0.049 ug/1 0642 PCB-1242 0.10 ug/1 0643 PCB-1248 0.039 ug/1 0644 PCB-1254 0.14 ug/1 0645 PCB-1260	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.		100	96	5	91	87	4	48	125
0.037 ug/1	N.D.		99	95	3	101	96	5	67	128

(1) The result for one or both determinations was less than five times the LOQ.







QUALITY CONTROL REPORT

Page: 5 of

LLI Sample No. 2734968 101-0697 Grab Water Sample

US ACOE-New Bedford 0

03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

SURROGATE S	SUMMARY
-------------	---------

	TRIAL ID	SURROGATE	RECOVERY X	SURROGATE LIMITS LOW HIGH
0173 PCBs in Water		TCX DCB	83 50	60 120 60 120







Page: 1 of 5

LLI Sample No. WW 2734969 Collected: 6/26/97 at 15:00 by DC

Submitted: 6/28/97 Reported: 7/28/97

Discard: 8/28/97

004-0697 Unspiked Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

04697 SDG#: NBH20-05BK

CAT NO. ANALYSIS NAME

1749 Cadmium 1751 Chromium 1753 Copper

1055 Lead (furnace method) PCBs in Water

0173

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

METHOD **RESULTS DETECTION LIMIT UNITS** 

> N.D. 0.0031 mg/1N.D. 0.0066 mg/1N.D. 0.0045 mg/1 N.D. 0.011 mg/l

1.0 See Page 2

Roy F. Weston, Inc. Data Package Group 1 COPY TO 1 COPY TO

ATTN: Mr. Thomas Abdella

Questions? Contact your Client Services Representative De Brooks at (717) 656-2300 12:08:54 D 0002 12 123814 571380 809 0.00 00010504 ASR000

Lancaster Laboratories

2425 New Holland Pike

717-656-2300 Fax 717-656-2681

PO Box 12425

MEMBER Lancaster, PA 17605-2425

Respectfully Submitted Ramona V. Layman Manager, Metals/Leachates



P.O. LL-2139-A7 Rel. 03886-118-002



Page: 2 of 5

LLI Sample No. WW 2734969 Collected: 6/26/97 at 15:00 by DC

Submitted: 6/28/97 Reported: 7/28/97 Discard:

8/28/97

004-0697 Unspiked Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

04697 SDG#: NBH20-05BK

ANALYSIS NAME

AS RECEIVED

METHOD RESULTS DETECTION LIMIT UNITS

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433

PCBs in Water

CAT

NO.

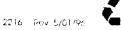
0639 PCB-1016 0640 PCB-1221 0641 PCB-1232 0642 PCB-1242 0643 PCB-1248 0644 PCB-1254 0645 PCB-1260

0.043 0.12 N.D. ug/1 N.D. ug/1 ug/1 N.D. 0.048 N.D. 0.10 ug/1 ug/1 N.D. 0.038 N.D. 0.14 ug/1 N.D. 0.036 ug/1

Questions? Contact your Client Services Representative De Brooks at (717) 656-2300

> Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs





#### LABORATORY CHRONICLE

Page: 3 of 5



LLI Sample No. WW 2734969 Collected: 06/26/97 at 15:00 by DC

Submitted: 06/28/97

004-0697 Unspiked Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03 04697 SDG#: NBH20-05BK

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749	Cadmium	SW-846 6010A	1	07/11/97 0010	Tara L. Linville
1751	Chromium	SW-846 6010A	1	07/11/97 0010	Tara L. Linville
1753	Copper	SW-846 6010A	1	07/11/97 0010	Tara L. Linville
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	07/02/97 2237	Charlotte L. Houck
1055	Lead (furnace method)	SW-846 7421	2	07/20/97 0135	Timothy Trees
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1	07/02/97 2231	Charlotte L. Houck
0173	PCBs in Water	SW-846 8081	1	07/02/97 0537	Rick Shober
0817	Water Sample Pest. Extraction	SW-846 3510B		06/30/97 1945	David M. Yiannokos

QUALITY CONTROL REPORT



Page: 4 of 5

LLI Sample No. 2734969 004-0697 Unspiked Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

SAMPLE SAMPLE MDL UNITS	BLANK	DUP RPD	MS	MSD	<b>M</b> S RPD	LCS	LCS Dup	LCS RPD	LCS I	IMITS HIGH
1749 Cadmium	Batch: 971831848007 N.D. Batch: 971831848007 N.D. Batch: 971831848007 N.D. Batch: 971835704003 N.D.	0 (1) 0 (1) 0 (1) 0 (1)	103 108 109 93	101 104 107 252	3 4 2 92	103 105 106			80 80 80	120 120 120
0173 PCBs in Water	Batch: 971810002A	0 (1)	93	232	92	92			80	120
0639 PCB-1016 0.043 ug/l 0640 PCB-1221 0.12 ug/l 0641 PCB-1232 0.048 ug/l 0642 PCB-1242 0.10 ug/l 0643 PCB-1248 0.038 ug/l 0644 PCB-1254 0.14 ug/l 0645 PCB-1260	N.D. N.D. N.D. N.D. N.D.		100	96	5	91	87	4	48	125
0.036 ug/1	N.D.		99	95	3	101	96	5	67	128

(1) The result for one or both determinations was less than five times the LOQ.



QUALITY CONTROL REPORT



Lancaster Laboratories
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Page: 5 of

LLI Sample No. 2734969 004-0697 Unspiked Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY %	SURROGATE LOW	LIMITS HIGH
0173 PCBs in Water		TCX DCB	84 80	60 60	120 120





Page: 1 of

LLI Sample No. WW 2734970 Collected: 6/26/97 at 15:00 by DC

Submitted: 6/28/97 Reported: 7/28/97

Discard:

8/28/97

004-0697 Matrix Spike Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03 04697 SDG#: NBH20-05MS

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

CAT	AS RECEIVED								
NO.	ANALYSIS NAME	RESULTS		METHOD DETECTION LIMIT UNITS					
1749 1751 1753 1055	Cadmium Chromium Copper Lead (furnace method) The quantitation limit for lead was incredue to the nature of the sample matrix.	0.052 0.215 0.274 0.019 eased	J	0.0031 0.0066 0.0045 0.011	mg/l mg/l mg/l mg/l				
0173	PCBs in Water			1.0	See Page	2			

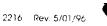
1 COPY TO Roy F. Weston, Inc. 1 COPY TO Data Package Group

ATTN: Mr. Thomas Abdella

Questions? Contact your Client Services Representative De Brooks at (717) 656-2300 12:09:29 D 0002 12 123814 571380 809 0.00 00010504 ASR000

> Respectfully Submitted Ramona V. Layman Manager, Metals/Leachates





P.O. LL-2139-A7

Rel. 03886-118-002



Page: 2 of 5

LLI Sample No. WW 2734970 Collected: 6/26/97 at 15:00 by DC

Discard: 8/28/97

Submitted: 6/28/97 Reported: 7/28/97

004-0697 Matrix Spike Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

04697 SDG#: NBH20-05MS

ANALYSIS NAME

AS RECEIVED

4.9

METHOD RESULTS DETECTION LIMIT UNITS

Account No: 08947

Devons MA 01433

Roy F. Weston, Inc. Bldg. 3701 Barnum Road

PCBs in Water

CAT

NO.

PCB-1016 0639 0640 PCB-1221 0641 PCB-1232 PCB-1242 0642 0643 PCB-1248 0644 PCB-1254 0645 PCB-1260 5.0 0.043 ug/1 N.D. 0.12 ug/1 N.D. 0.048 ug/1 N.D. 0.10 ug/1 0.038 0.14 N.D. ug/1 N.D. ug/1

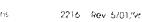
0.036

ug/1

Questions? Contact your Client Services Representative De Brooks at (717) 656-2300

> Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs





### LABORATORY CHRONICLE



Page: 3 of 5

LLI Sample No. WW 2734970 Collected: 06/26/97 at 15:00 by DC

Submitted: 06/28/97

004-0697 Matrix Spike Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03 04697 SDG#: NBH20-05MS

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749	Cadmium	SW-846 6010A	1	07/11/97 0028	Tara L. Linville
1751	Chromium	SW-846 6010A	1	07/11/97 0028	Tara L. Linville
1753	Copper	SW-846 6010A	1	07/11/97 0028	Tara L. Linville
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	07/02/97 2237	Charlotte L. Houck
1055	Lead (furnace method)	SW-846 7421	2	07/20/97 0154	Timothy Trees
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1	07/02/97 2231	Charlotte L. Houck
0173	PCBs in Water	SW-846 8081	1	07/02/97 0615	Rick Shober
0817	Water Sample Pest. Extraction	SW-846 3510B		06/30/97 1945	David M. Yiannokos



QUALITY CONTROL REPORT



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LLI Sample No. 2734970 004-0697 Matrix Spike Grab Water Sample

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US ACOE-New Bedford 03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

SAMPLE SAMPI MDL UNITS		DUP RPD	MS	MSD	MS RPD	LCS	LCS Dup	LCS RPD	LCS LOW	LIMITS HIGH
1749 Cadmium	Batch: 971831848007 N.D. Batch: 971831848007 N.D. Batch: 971831848007 N.D. bd) Batch: 971835704003 N.D.	0 (1) 0 (1) 0 (1)	103 108 109	101 104 107	3 4 2	103 105 106			80 80 80	120 120 120
0173 PCBs in Water	Batch: 971810002A	0 (1)	93	252	92	92			80	120
0639 PCB-1016 0.043 ug/1 0640 PCB-1221 0.12 ug/1 0641 PCB-1232 0.048 ug/1 0642 PCB-1242 0.10 ug/1 0643 PCB-1248 0.038 ug/1 0644 PCB-1254 0.14 ug/1 0645 PCB-1260	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.		100	96	5	91	87	4	48	125
0.036 ug/1	N.D.		99	95	3	101	96	5	67	128

(1) The result for one or both determinations was less than five times the LOQ.



QUALITY CONTROL REPORT

Page: 5 of

# Lancaster Laboratories A division of Thermo Analytical Inc.

LLI Sample No. 2734970 004-0697 Matrix Spike Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY X	SURROGATI LOW	E LIMITS HIGH
0173 PCBs in Water		TCX DCB	88 91	60 60	120 120







Page: 1 of 5

LLI Sample No. ww 2734971 Collected: 6/26/97 at 15:00 by DC

Submitted: 6/28/97 Reported: 7/28/97

Discard: 8/28/97

004-0697 Matrix Spike Duplicate Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

04697 SDG#: NBH20-05MSD

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

AS DECETVED

P.O. LL-2139-A7 Rel. 03886-118-002

CAT		METHOD			
NO.	ANALYSIS NAME	RESULTS	DETECTION LIM	IT UNITS	
1749 1751 1753 1055 0173	Cadmium Chromium Copper Lead (furnace method) PCBs in Water	0.050 0.207 0.268 0.050	0.0031 0.0066 0.0045 0.011 1.0	mg/l mg/l mg/l mg/l See Page	2

1 COPY TO 1 COPY TO Roy F. Weston, Inc. Data Package Group

ATTN: Mr. Thomas Abdella

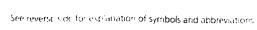
Questions? Contact your Client Services Representative De Brooks at (717) 656-2300 12:10:22 D 0002 12 123814 571380 0.00 00010504 ASR000

Lancaster Laboratories

2425 New Holland Pike

PO Box 12425 Lancaster, PA 17605-2425 Respectfully Submitted Ramona V. Layman Manager, Metals/Leachates









Page: 2 of

LLI Sample No. WW 2734971 Collected: 6/26/97 at 15:00 by DC

Discard:

Submitted: 6/28/97 Reported: 7/28/97

8/28/97

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

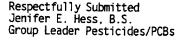
P.O. LL-2139-A7 Rel. 03886-118-002

004-0697 Matrix Spike Duplicate Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03 04697 SDG#: NBH20-05MSD

CAT			AS RECEIVED		
NO.	ANALYSIS	NAME	RESULTS	METHOD DETECTION LIMIT UNITS	
PCBs	in Water				
0639 0640 0641 0642 0643 0644 0645	PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260		4.8 N.D. N.D. N.D. N.D. N.D. 4.8	0.10 ug/1 0.038 ug/1	

Questions? Contact your Client Services Representative De Brooks at (717) 656-2300







#### LABORATORY CHRONICLE

Page: 3 of 5



LLI Sample No. WW 2734971 Collected: 06/26/97 at 15:00 by DC

Submitted: 06/28/97

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

004-0697 Matrix Spike Duplicate Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03 04697 SDG#: NBH20-05MSD

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749	Cadmium	SW-846 6010A	1	07/11/97 0034	Tara L. Linville
1751	Chromium	SW-846 6010A	1	07/11/97 0034	Tara L. Linville
1753	Copper	SW-846 6010A	1	07/11/97 0034	Tara L. Linville
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	07/02/97 2237	Charlotte L. Houck
1055	Lead (furnace method)	SW-846 7421	2	07/20/97 0204	Timothy Trees
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A	1	07/02/97 2231	Charlotte L. Houck
0173	PCBs in Water	SW-846 8081	1	07/02/97 0654	Rick Shober
0817	.Water Sample Pest. Extraction	SW-846 3510B		06/30/97 1945	David M. Yiannokos



#### QUALITY CONTROL REPORT



Page: 4 of 5

LLI Sample No. 2734971 004-0697 Matrix Spike Duplicate Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

SAMPL MDL	E SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS I	LIMITS HIGH
1749 Cadmium 0.003 1751 Chromiu 0.006 1753 Copper 0.004 1055 Lead (f	1 mg/l m 6 mg/l 5 mg/l urnace method)	Batch: 971831848007 N.D. Batch: 971831848007 N.D. Batch: 971831848007 N.D. Batch: 971835704003 N.D.	0 (1) 0 (1) 0 (1) 0 (1)	103 108 109 93	101 104 107	3 4 2	103 105 106			80 80 80	120 120 120
0173 PCBs in		Batch: 971810002A	0 (1)	93	252	92	92			80	120
0639 PCB- 0.043 0640 PCB- 0.12 0641 PCB- 0.048 0642 PCB-1 0.10 0643 PCB-1 0.038 0644 PCB-1 0.14	1016 ug/1 1221 ug/1 1232 ug/1 1242 ug/1 1248 ug/1 1254 ug/1	N.D. N.D. N.D. N.D. N.D. N.D.		100	96	5	91	87	4	48	125
0.036	ug/1	N.D.		99	95	3	101	96	5	67	128



QUALITY CONTROL REPORT



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# Lancaster Laboratories A division of Thermo Analytical Inc.

LLI Sample No. 2734971 004-0697 Matrix Spike Duplicate Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY *	SURROGATI LOW	E LIMITS HIGH
0173 PCBs in Water		TCX DCB	85 89	60 60	120 120







Page: 1 of

LLI Sample No. WW 2734972 Collected: 6/26/97 at 15:00 by DC

Submitted: 6/28/97 Reported: 7/28/97

8/28/97 Discard:

004-0697 Duplicate Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

04697 SDG#: NBH20-05DUP

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

METHOD

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED CAT NO. ANALYSIS NAME **RESULTS** 

DETECTION LIMIT UNITS

1749 Cadmium N.D. 0.0031 mg/1 1751 Chromium 0.0066 mg/l 0.0045 mg/l N.D. 1753 Copper N.D. 1055 Lead (furnace method) 0.011 J 0.011 mg/1

The quantitation limit for lead was increased due to the nature of the sample matrix.

Roy F. Weston, Inc. 1 COPY TO 1 COPY TO Data Package Group

ATTN: Mr. Thomas Abdella

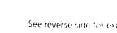
Questions? Contact your Client Services Representative De Brooks at (717) 656-2300 12:11:07 D 0002 12 123814 571380 0.00 00004524 ASR000

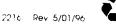
Lancaster Laboratories

2425 New Holland Pike PO Box 12425 Lancaster, PA 17601-1:425.

Respectfully Submitted Ramona V. Layman Manager, Metals/Leachates







#### LABORATORY CHRONICLE

Page: 2 of 3



LLI Sample No. WW 2734972 Collected: 06/26/97 at 15:00 by DC

Submitted: 06/28/97

004-0697 Duplicate Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

04697 SDG#: NBH20-05DUP

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1751 1753	Cadmium Chromium Copper WW SW846 ICP Digest (tot rec)	SW-846 6010A SW-846 6010A SW-846 6010A SW-846 3005A	1 1 1	07/11/97 0022 07/11/97 0022 07/11/97 0022 07/02/97 2237	Tara L. Linville Tara L. Linville Tara L. Linville Charlotte L. Houck
1055 5704	Lead (furnace method) WW/TL SW 846 GFAA Digest tot	SW-846 7421 SW-846 3020A	2 1	07/20/97 0145 07/02/97 2231	Timothy Trees Charlotte L. Houck



QUALITY CONTROL REPORT



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LLI Sample No. 2734972 004-0697 Duplicate Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

SAMPLE MDL	SAMPLE UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS L	_IMITS HIGH
1749 Cadmium 0.0031 1751 Chromium	mg/l	Batch: 971831848007 N.D. Batch: 971831848007	0 (1)	103	101	3	103			80	120
0.0066 1753 Copper	mg/l	N.D. Batch: 971831848007	0 (1)	108	104	4	105			80	120
0.0045 1055 Lead (furn	mg/l mace method)	N.D. Batch: 971835704003	0 (1)	109	107	2	106			80	120
0.011	mg/l	N.D.	0 (1)	93	252	92	92			80	120





Page: 1 of

LLI Sample No. WW 2734973 Collected: 6/26/97 at 15:00 by DC

Submitted: 6/28/97 Reported: 7/28/97

Discard: 8/28/97

005-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

05697 SDG#: NBH20-06

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED CAT METHOD ANALYSIS NAME NO. RESULTS DETECTION LIMIT UNITS 1749 Cadmium N.D. 0.0031 1751 Chromium N.D. 0.0066 mg/1 1753 N.D. 0.0045 mg/l 1055 Lead (furnace method) N.D. 0.011 mg/1The quantitation limit for lead was increased due to the nature of the sample matrix. 0173 PCBs in Water 1.0 See Page 2

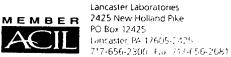
1 COPY TO Roy F. Weston, Inc. 1 COPY TO Data Package Group

ATTN: Mr. Thomas Abdella

Questions? Contact your Client Services Representative De Brooks at (717) 656-2300 12:11:38 D 0002 12 123814 571380 0.00 00010504 ASR000

> Respectfully Submitted Ramona V. Layman Manager, Metals/Leachates









Page: 2 of 5

LLI Sample No. ww 2734973 Collected: 6/26/97 at 15:00 by DC

Discard:

8/28/97

Submitted: 6/28/97 Reported: 7/28/97

005-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

05697 SDG#: NBH20-06

PCB-1248

PCB-1254

PCB-1260

0643

0644

0645

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

0.038

0.14

0.036

ug/1

ug/1

ug/1

P.O. LL-2139-A7 Rel. 03886-118-002

OSOS/ SDOM. NO	1120-00	
CAT	AS	RECEIVED METHOD
NO. ANALYSIS NA	ME RESULTS	DETECTION LIMIT UNITS
PCBs in Water	_	
0639 PCB-1016 0640 PCB-1221	N.D. N.D.	0.043 ug/l 0.12 ug/l
0641 PCB-1232	N.D.	0.12 ug/1 0.048 ug/1
0642 PCB-1242	N.D.	0.10 ug/l

N.D.

N.D.

N.D.

Questions? Contact your Client Services Representative De Brooks at (717) 656-2300

> Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs





Lancaster Laboratories

#### LABORATORY CHRONICLE

Page: 3 of 5



LLI Sample No. WW 2734973 Collected: 06/26/97 at 15:00 by DC

Submitted: 06/28/97

005-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03 05697 SDG#: NBH20-06

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749	Cadmium	SW-846 6010A	1	07/11/97 0123	Tara L. Linville
1751	Chromium	SW-846 6010A	1	07/11/97 0123	Tara L. Linville
1753	Copper	SW-846 6010A	1	07/11/97 0123	Tara L. Linville
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	07/02/97 2237	Charlotte L. Houck
1055	Lead (furnace method)	SW-846 7421	1	07/15/97 1709	Laura M. Hickes
5704	WW/TL SW 846 GFAA Digest tot	SW-846 3020A		07/02/97 2231	Charlotte L. Houck
0173	PCBs in Water	SW-846 8081	1	07/04/97 1734	Rick Shober
0817	Water Sample Pest. Extraction	SW-846 3510B		06/30/97 1945	David M. Yiannokos

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

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QUALITY CONTROL REPORT

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LLI Sample No. 2734973 005-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

	MPLE ITS BLANK	DUP K RPD	MS	MSD	MS RPD	LCS	LCS Dup	LCS RPD	LCS LOW	LIMITS HIGH
1749 Cadmium		831848007 831848007 835704003 0 (1)	103 108 109	101 104 107	3 4 2	103 105 106			80 80 80	120 120 120
0.011 mg/7	N.D. Batch: 9718	0 (1) 810002A	93	252	92	92			80	120
0639 PCB-1016 0.043 ug/1 0640 PCB-1221 0.12 ug/1 0641 PCB-1232 0.048 ug/1 0642 PCB-1242 0.10 ug/1 0643 PCB-1248 0.038 ug/1 0644 PCB-1254 0.14 ug/1 0645 PCB-1260	N.D. N.D. N.D. N.D. N.D.	01000ZA	100	96	5	91	87	4	48	125
0.036 ug/1	N.D.		99	95	3	101	96	5	67	128



#### QUALITY CONTROL REPORT



Lancaster Laboratories
A division of Thermo Analytical Inc.

Page: 5 of 5

LLI Sample No. 2734973 005-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY *	SURROGATE LOW	LIMITS HIGH
0173 PCBs in Water		TCX DCB	88 83	60 60	120 120





Page: 1 of 5

LLI Sample No. WW 2734974 Collected: 6/26/97 at 11:15 by DC

Submitted: 6/28/97 Reported: 7/28/97

Discard: 8/28/97

002-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

02697 SDG#: NBH20-07

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

AS RECEIVED

P.O. LL-2139-A7 Rel. 03886-118-002

CAT		AS RECEIVED								
NO.	ANALYSIS NAME	RESULTS	METHOD DETECTION LIN	NIT UNITS						
1749 1751 1753 1055	Cadmium Chromium Copper Lead (furnace method) The grantitation limit for lead was income.	N.D. N.D. N.D. N.D.	0.0031 0.0066 0.0045 0.011	mg/1 mg/1 mg/1 mg/1						
0173	The quantitation limit for lead was incr due to the nature of the sample matrix. PCBs in Water	reased	1.0	See Page	2					

1 COPY TO Roy F. Weston, Inc. 1 COPY TO Data Package Group

ATTN: Mr. Thomas Abdella

Questions? Contact your Client Services Representative De Brooks at (717) 656-2300 12:12:14 D 0002 12 123814 571380 12:12:14 D 0002 12 809 0.00 00010504 ASR000

> Respectfully Submitted Ramona V. Layman Manager, Metals/Leachates





P.O. LL-2139-A7

Rel. 03886-118-002



2 of Page: 5

LLI Sample No. WW 2734974 Collected: 6/26/97 at 11:15 by DC

Discard:

8/28/97

Submitted: 6/28/97 Reported: 7/28/97

002-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03 02697 SDG#: NBH20-07

ANALYSIS NAME

AS RECEIVED

N.D.

METHOD **RESULTS DETECTION LIMIT UNITS** 

Account No: 08947

Devons MA 01433

Roy F. Weston, Inc. Bldg. 3701 Barnum Road

PCBs in Water

CAT

NO.

0639 PCB-1016 PCB-1221 PCB-1232 0640 0641 PCB-1242 0642 PCB-1248 PCB-1254 0643 0644 0645 PCB-1260

0.043 N.D. ug/1 N.D. 0.12 ug/1 N.D. 0.048 ug/1 N.D. 0.10 ug/1 N.D. 0.038 ug/1 N.D. 0.14 ug/1

0.036

ug/1

Questions? Contact your Client Services Representative De Brooks at (717) 656-2300

> Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs







Lancaster Laboratories

2425 New Holland Pike

#### LABORATORY CHRONICLE



Page: 3 of 5

LLI Sample No. WW 2734974 Collected: 06/26/97 at 11:15 by DC

Submitted: 06/28/97

002-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03 02697 SDG#: NBH20-07

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1753	Cadmium Chromium Copper WW SW846 ICP Digest (tot rec)	SW-846 6010A SW-846 6010A SW-846 6010A SW-846 3005A	1 1 1	07/11/97 0129 07/11/97 0129 07/11/97 0129 07/02/97 2237	Tara L. Linville Tara L. Linville Tara L. Linville Charlotte L. Houck
	Lead (furnace method) WW/TL SW 846 GFAA Digest tot	SW-846 7421 SW-846 3020A	1	07/15/97 1730 07/02/97 2231	Laura M. Hickes Charlotte L. Houck
0173 0817	PCBs in Water Water Sample Pest. Extraction	SW-846 8081 SW-846 3510B	1	07/02/97 1044 06/30/97 1945	Rick Shober David M. Yiannokos



QUALITY CONTROL REPORT

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LLI Sample No. 2734974 002-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

SAMPLE MDL	SAMPLE UNITS	BLANK	<b>DUP</b> RPD	MS	MSD	MS RPD	LCS	LCS DUP	LCS RPD	LCS I	LIMITS HIGH
1751 Chromium 0.0066 1753 Copper 0.0045 1055 Lead (furna	mg/l mg/l mg/l ace method)	Batch: 971831848007 N.D. Batch: 971831848007 N.D. Batch: 971831848007 N.D. Batch: 971835704003	0 (1) 0 (1) 0 (1)	103 108 109	101 104 107	3 4 2	103 105 106			80 80 80	120 120 120
	mg/1	N.D.	0 (1)	93	252	92	92			80	120
0641 PCB-1232 0.048 0642 PCB-1242 0.10 0643 PCB-1248 0.038 0644 PCB-1254 0.14	ug/l ug/l ! ug/l ! ug/l ug/l	N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D.		100	96	5	91	87	4	48	125
0645 PCB-1260 0.036	ug/1	N.D.		99	95	3	101	96	5	67	128







QUALITY CONTROL REPORT

Page: 5 of

5

LLI Sample No. 2734974 002-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY *	SURROGATE LOW	LIMITS HIGH
0173 PCBs in Water		TCX DCB	87 65	60 60	120 120







Page: 1 of 5

LLI Sample No. WW 2734975 Collected: 6/26/97 at 11:10 by DC

Submitted: 6/28/97 Reported: 7/28/97

8/28/97 Discard:

003-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

03697 SDG#: NBH20-08

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

AS RECEIVED

P.O. LL-2139-A7 Rel. 03886-118-002

CAT METHOD NO. ANALYSIS NAME RESULTS DETECTION LIMIT UNITS 1749 Cadmium 0.0042 J 0.0031 mg/l N.D. 0.082 1751 Chromium 0.0066 mg/1 1753 Copper 0.0045 mg/1 Lead (furnace method) 1055 0.0047 0.0011 mg/l PCBs in Water 0173 1.0 See Page

1 COPY TO 1 COPY TO Roy F. Weston, Inc. Data Package Group

ATTN: Mr. Thomas Abdella

Questions? Contact your Client Services Representative De Brooks at (717) 656-2300 12:13:07 D 0002 12 123814 5713800.00 00010504 ASR000



Respectfully Submitted Ramona V. Layman Manager, Metals/Leachates





Page: 2 of 5

LLI Sample No. WW 2734975 Collected: 6/26/97 at 11:10 by DC

Submitted: 6/28/97 Reported: 7/28/97

Discard: 8/28/97

003-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03 03697 SDG#: NBH20-08

CAT ANALYSIS NAME NO.

PCB-1260

0645

PCBs in Water 0639 PCB-1016 0640 PCB-1221 0641 PCB-1232 0642 PCB-1242 PCB-1248 0643 0644 PCB-1254

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED METHOD RESULTS

DETECTION LIMIT UNITS

N.D.	0.043	ug/1
N.D.	0.12	ug/1
N.D.	0.048	ug/1
N.D.	0.10	ug/1
N.D.	0.038	ug/1
N.D.	0.14	ug/l
N.D.	0.036	ug/1

Questions? Contact your Client Services Representative De Brooks at (717) 656-2300



Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs



LABORATORY CHRONICLE

Page: 3 of 5

LLI Sample No. WW 2734975 Collected: 06/26/97 at 11:10 by DC

Submitted: 06/28/97

003-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03 03697 SDG#: NBH20-08

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749	Cadmium	SW-846 6010A	1		Tara L. Linville
1751	Chromium	SW-846 6010A	1		Tara L. Linville
1753	Copper	SW-846 6010A	1		Tara L. Linville
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1		Charlotte L. Houck
	Lead (furnace method) WW/TL SW 846 GFAA Digest tot	SW-846 7421 SW-846 3020A	1	07/15/97 1741 07/02/97 2231	Laura M. Hickes Charlotte L. Houck
0173	PCBs in Water	SW-846 8081	1	07/02/97 1123	Rick Shober
0817	Water Sample Pest. Extraction	SW-846 3510B		06/30/97 1945	David M. Yiannokos

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433





QUALITY CONTROL REPORT

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LLI Sample No. 2734975 003-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

SAMPLE SAMPLE MDL UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS Dup	LCS RPD	LCS L	IMITS HIGH
1749 Cadmium	Batch: 971831848007 N.D. Batch: 971831848007 N.D. Batch: 971831848007 N.D. Batch: 971835704003 N.D.	0 (1) 0 (1) 0 (1) 0 (1)	103 108 109 93	101 104 107 252	3 4 2 92	103 105 106 92			80 80 80	120 120 120 120
0173 PCBs in Water	Batch: 971810002A									
0639 PCB-1016 0.043 ug/1 0640 PCB-1221 0.12 ug/1	N.D. N.D.		100	96	5	91	87	4	48	125
0641 PCB-1232 0.048 ug/1 0642 PCB-1242	N.D.									
0.10 ug/l 0643 PCB-1248	N.D.									
0.038 ug/1 0644 PCB-1254 0.14 ug/1	N.D. N.D.									
0645 PCB-1260 0.036 ug/1	N.D.		99	95	3	101	96	5	67	128





QUALITY CONTROL REPORT

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LLI Sample No. 2734975 003-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY *	SURROGATE LOW	LIMITS HIGH
0173 PCBs in Water		TCX DCB	82 77	60 60	120 120







Page: 1 of 5

LLI Sample No. WW 2734976 Collected: 6/26/97 at 12:00 by DC

Submitted: 6/28/97 Reported: 7/28/97

Discard: 8/28/97

202-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

20297 SDG#: NBH20-09

CAT NO. ANALYSIS NAME 1749 Cadmium 1751 Chromium 1753 Copper 1055 Lead (furnace method)

PCBs in Water

0173

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

P.O. LL-2139-A7 Rel. 03886-118-002

AS RECEIVED

METHOD RESULTS DETECTION LIMIT UNITS 0.0031 N.D. N.D. 0.0066 mg/1 0.0045 N.D. mg/l N.D.

0.0011 mg/l 1.0 See Page

1 COPY TO Roy F. Weston, Inc. 1 COPY TO Data Package Group

ATTN: Mr. Thomas Abdella

Questions? Contact your Client Services Representative De Brooks at (717) 656-2300 123814 571380 12:14:13 D 0002 12 0.00 00010504 ASR000 809



Respectfully Submitted Ramona V. Layman Manager, Metals/Leachates





Page: 2 of 5

LLI Sample No. WW 2734976 Collected: 6/26/97 at 12:00 by DC

Submitted: 6/28/97 Reported: 7/28/97

Discard: 8/28/97

202-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03 20297 SDG#: NBH20-09

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road Devons MA 01433

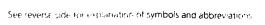
P.O. LL-2139-A7 Rel. 03886-118-002

CAT	, opa <sub>4</sub> , .	TIDITED OF	AS	RECEIVED
NO.	ANALYSIS	NAME	RESULTS	METHOD DETECTION LIMIT UNITS
PCBs	in Water	•		
0639 0640 0641 0642 0643 0644 0645	PCB-1016 PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260		N.D. N.D. N.D. N.D. N.D. N.D.	0.12 ug/1 0.048 ug/1 0.10 ug/1 0.038 ug/1 0.14 ug/1

Questions? Contact your Client Services Representative De Brooks at (717) 656-2300



Respectfully Submitted Jenifer E. Hess, B.S. Group Leader Pesticides/PCBs





LABORATORY CHRONICLE

Page: 3 of 5

LLI Sample No. WW 2734976 Collected: 06/26/97 at 12:00 by DC

Submitted: 06/28/97

202-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03 20297 SDG#: NBH20-09

CAT NO	ANALYSIS NAME	METHOD	TRIAL	ANALYSIS DATE AND TIME	ANALYST
1749	Cadmium	SW-846 6010A	1	07/11/97 0141	
1751	Chromium	SW-846 6010A	1	07/11/97 0141	
1753	Copper	SW-846 6010A	1	07/11/97 0141	
1848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	07/02/97 2237	
	Lead (furnace method) WW/TL SW 846 GFAA Digest tot	SW-846 7421 SW-846 3020A	1	07/15/97 1752 07/02/97 2231	Laura M. Hickes Charlotte L. Houck
0173	PCBs in Water	SW-846 8081	1	07/02/97 1202	Rick Shober
0817	Water Sample Pest. Extraction	SW-846 3510B	1	06/30/97 1945	David M. Yiannokos

Account No: 08947 Roy F. Weston, Inc. Bldg. 3701 Barnum Road

Devons MA 01433







QUALITY CONTROL REPORT

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LLI Sample No. 2734976 202-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

SAMPLE SAMPLE MDL UNITS	BLANK	DUP RPD	MS	MSD	MS RPD	LCS	LCS Dup	LCS RPD	LCS I	LIMITS HIGH
1749 Cadmium 0.0031 mg/l 1751 Chromium 0.0066 mg/l	Batch: 971831848007 N.D. Batch: 971831848007 N.D.	0 (1) 0 (1)	103 108	101 104	3 4	103 105			80 80	120 120
1753 Copper 0.0045 mg/l 1055 Lead (furnace method) 0.0011 mg/l	Batch: 971831848007 N.D. Batch: 971835704003 N.D.	0 (1)	109	107 252	2 92	106 92			80 80	120 120 120
0173 PCBs in Water	Batch: 971810002A	- 127			32	<i>.</i>			00	120
0639 PCB-1016 0.043 ug/1 0640 PCB-1221	N.D.		100	96	5	91	87	4	48	125
0.12 ug/l 0641 PCB-1232 0.048 ug/l 0642 PCB-1242	N.D. N.D.									
0.10 ug/1 0643 PCB-1248 0.038 ug/1	N.D. N.D.									
0644 PCB-1254 0.14 ug/1 0645 PCB-1260	N.D.									
0.036 ug/1	N.D.		99	95	3	101	96	5	67	128







QUALITY CONTROL REPORT

Page:

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5

LLI Sample No. 2734976 202-0697 Grab Water Sample

US ACOE-New Bedford 03886-118-002-0500-03

Group No. 571380 Roy F. Weston, Inc.

SURROGATE SUMMARY

	TRIAL ID	SURROGATE	RECOVERY *	SURROGATE LOW	LIMITS HIGH
0173 PCBs in Water		TCX DCB	87 91	60 60	120 120



